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## PATENTS

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

DALE ET AL.

Serial No. 10/540,730

**Filed: June 24, 2005**

For: **COATINGS**

Art Unit:

Examiner:

## INFORMATION DISCLOSURE STATEMENT

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Respectfully submitted,

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Our Docket: 46309-315846

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 2

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|                        |               |
|------------------------|---------------|
| Application Number     | 10/540,730    |
| Filing Date            | 06-24-2005    |
| First Named Inventor   | Nicholas Dale |
| Art Unit               |               |
| Examiner Name          |               |
| Attorney Docket Number | 46309-315846  |

**U.S. PATENT DOCUMENTS**

| Examiner<br>Initials * | Cite<br>No. <sup>1</sup> | Document Number                            | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of<br>Cited Document | Pages, Columns, Lines, Where Relevant<br>Passages or Relevant<br>Figures Appear |
|------------------------|--------------------------|--|--------------------------------|--|---|
|                        |                          | Number - Kind Code <sup>2</sup> (if known) |                                |  |   |
|                        | 1                        | US-5698083                                 | 12-16-1997                     | Robert S. Glass                                    |   |
|                        | 2                        | US-6303290                                 | 10-16-2001                     | Liu et al.   |   |

**FOREIGN PATENT DOCUMENTS**

| Examiner<br>Initials * | Cite<br>No. <sup>1</sup> | Foreign Patent Document   | Publication<br>Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited<br>Document | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear | T <sup>6</sup> |
|------------------------|--------------------------|---|-----------------------------------|---|--|----------------|
|                        |                          | Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known) |                                   |   |  |                |
|                        | 3                        | EP 0537761  | 04-21-1993                        | Yoshioka et al.                                       |  |                |
|                        | 4                        | WO 99/07877   | 02-18-1999                        | Nicholas Dale   |  |                |
|                        | 5                        | WO 99/10743   | 03-04-1999                        | Charych et al.  |  |                |

**OTHER INFORMATION - NON PATENT LITERATURE DOCUMENTS**

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|----------------------|--------------------------|--|----------------|
|                      | 6                        | ANGENENDT, PHILIPP ET AL.; "Toward optimized antibody microarrays: a comparison of current microarray support materials"; Analytical Biochemistry 309 (2002) 253-260   |                |
|                      | 7                        | AVNIR, DAVID ET AL.; "Enzymes and Other Proteins Entrapped in Sol-Gel Materials"; Chem. Mater., Vol. 6, 1994, pp. 1605-1614  |                |
|                      | 8                        | BOGART, K.H.A. ET AL.; "Surface reactivity measurements for OH radicals during deposition of SiO <sub>2</sub> from tetraethoxysilane/ O <sub>2</sub> plasmas,"; Chemical Physics Letters; 267 (1997); 377-383  |                |
|                      | 9                        | BURMEISTER, JASON J. ET AL.; "Self-Referencing Ceramic-Based Multisite Microelectrodes for the Detection and Elimination of Interferences from the Measurement of L-Glutamate and Other Analytes"; Analytical Chemistry; 1 March 2001; 1037-1042; Vol. 73, No. 5 |                |
|                      | 10                       | DEEPA, P.N. ET AL.; "Electrochemically Deposited Sol-Gel-Derived Silicate Films as a Viable Alternative in Thin-Film Design,"; Analytical Chemistry; 2003; 5399-5405; Vol. 75  |                |
|                      | 11                       | GHEORGHIES, C. ET AL.; "Forming of the Structure for the Thin Ceramic Films Prepared by the Electrolytical Method,"; Analele Stiintifice Ale Universitatii; 1999-2000; 268-275   |                |
|                      | 12                       | HARRELL, T.M. ET AL.; "Selective Deposition of Biocompatible Sol-Gel Materials,"; Journal of Sol-Gel Science and Technology 31; 349-352, 2004  |                |
|                      | 13                       | HUANG, YUHONG ET AL.; "Advances in Sol-Gel Technology,"; Chemat Technology, Inc., Northridge, Calif.; Shanghai Chemat Advanced Ceramics Technology Co., Ltd., Shanghai, China  |                |
|                      | 14                       | JONES, W.M. ET AL.; "Novel Processing of Silica Hydrosols and Gels,"; Journal of Non-Crystalline Solids, 101; 1988; 123-126  |                |

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|------------------------|--------------------------|--|----------------|
|                        | 15                       | LILLIS, B. ET AL.; "Investigation into immobilisation of lactate oxidase to improve stability," Sensors and Actuators B 68; 2000; 109-114  |                |
|                        | 16                       | Extracts from Pamela M. Norns' online CV (University of Virginia, USA); "Production of Chromatographic Microchips using Sol-gel Derived Chromatographic Media" Funded by the Ivy Foundation, University of Virginia (PI: P.M. Norris, MAE; Co-PI: J. Landers, Chemistry) |                |
|                        | 17                       | PALMISANO, F. ET AL.; "Amperometric biosensors based on electrosynthesised polymeric films,," Fresenius J Analytical Chemistry (2000) 366; 586-601   |                |
|                        | 18                       | POWER, MARY ET AL.; "Aerogels as biosensors: viral particle detection by bacteria immobilized on large pore aerogel,," Journal of Non-Crystalline Solids 285; 2001; 303-308  |                |
|                        | 19                       | SHACHAM, RONEN ET AL.; "Electrodeposition of Zirconia and Silica Sol-Gel Films,," The 66 <sup>th</sup> Annual Meeting of the Israel Chemical Society; February 5-6, 2001   |                |
|                        | 20                       | SHACHAM RONEN ET AL.; "Electrodeposition of Methylated Sol-Gel Films on Conducting Surfaces"; Adv. Materials, 1999, 11, No. 5, pp.384-388  |                |
|                        | 21                       | SREENIVAS, G. ET AL.; "Fabrication and Characterization of Sputtered-Carbon Microelectrode Arrays,," Analytical Chemistry; 1996; 1858-1864; Vol. 68, No. 11  |                |
|                        | 22                       | TEMPLIN, MARKUS F. ET AL.; "Protein microarray technology,," TRENDS in Biotechnology; April 2002; 160-165; Vol. 20, No. 4  |                |
|                        | 23                       | YAN, D. ET AL.; "Glycerated Bis-Silanes as Precursors for the Development of Sol-Gel Derived Biofilms,," The 84 <sup>th</sup> Canadian Society for Chemistry Conference & Exhibition 2001  |                |

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